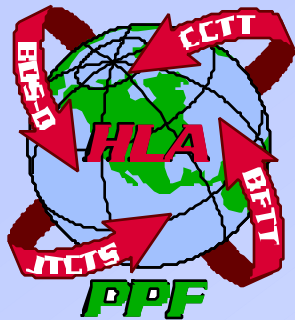


Platform Proto-Federation AMG-15

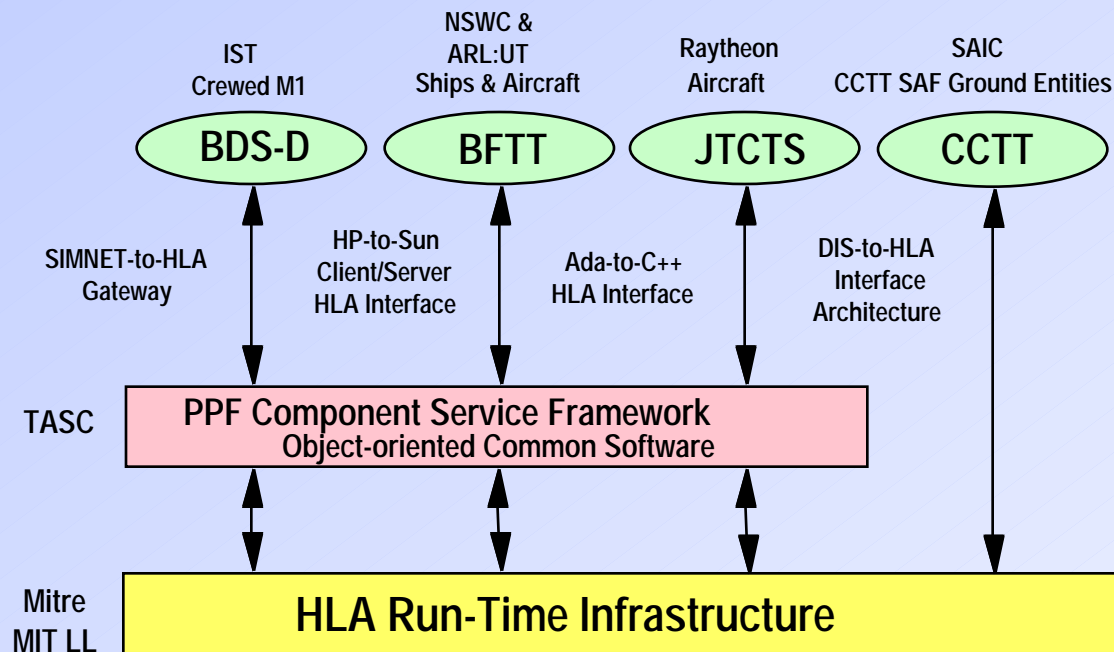
Susan M. Harkrider

STRICOM

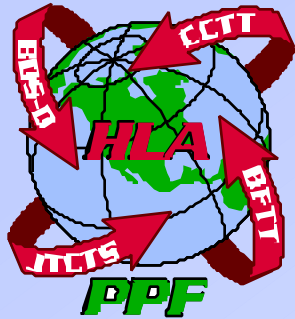
10 October 1996



Platform Proto Federation

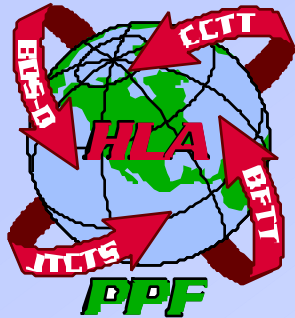


- platform level real-time simulations
- DIS 2.X based
- objectives
 - HLA functionality
 - performance
 - CSF/middleware



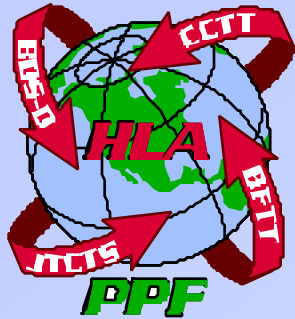
PPF Contributions to HLA Definition Process

- Addressed the DIS community concerns & issues
 - functionality
 - performance, esp. latency
 - implementation methodologies
- Developed common software to facilitate RTI integration
- Prototyped FOM Development Tools
- Participated in AMG & working group meetings



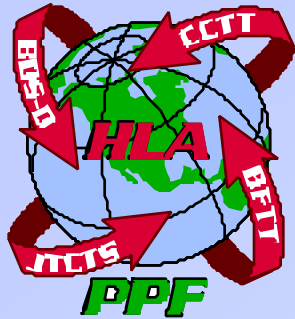
Lessons Learned for Transition

- HLA provides sufficient functionality for DIS-based systems
- Performance does not meet current requirements
- Common software can be beneficial
- Compliance testing is a necessary step in HLA implementation
- HLA Baseline Issues:
 - OMT needs behavior/semantic representation templates,
 - Need to filter interactions based on interacting objects as well as by interaction class type,
 - An effective Data Distribution Management service is critical to DIS legacy scalability.



DIS Legacy HLA Compliance

- **DIS legacy systems require a translation layer to the RTI (Either CSF or legacy middleware infrastructure).**
- **HLA Time Management Services not currently used.**
- **Further SIMAN and other protocol issues need to be resolved.**
- **HLA offers capabilities beyond DIS:**
 - **Flexibility of transport types/rate,**
 - **Capability for multiple fidelity attributes,**
 - **Data Distribution (Filter Space),**
 - **Ownership Transfer.**



Follow Up Actions

- Continue evaluations of HLA (performance, functionality)
- Continue FOM development tool prototyping
- Develop compliance testing methodology & toolset
- Provide education to user community
- Develop catalog of available tools with their description
- Develop exercise setup performance analysis toolset
- Participate in “RTI Friends” program